WU YIFAN (吴轶凡)
School of Economics, Singapore Management University
https://www.yifanwuecon.com/
yifan.wu.2017@phdecons.smu.edu.sg

Contact Information:

School of Economics
Singapore Management University
90 Stamford Road
Singapore 178903, Republic of Singapore
Cell: +65 88234188

Personal Information:

Date of Birthday: 17th October 1994
Gender: Male
Citizenship: Chinese

Undergraduate Studies:

B.A., Economics, Jinhe Center for Economic Research, Xi'an Jiaotong University, 2017
Exchange Student, Monash Business School, Monash University, 2016

Graduate Studies:

School of Economics, Singapore Management University, 2017 to present
Thesis Title: "On Spatial Externalities and Spillover Effects in Urban Economics"
Expected Completion Date: June 2022

Thesis Committee and References:

Zhenlin Yang (advisor)
School of Economics
Singapore Management University
90 Stamford Road
Singapore 178903
Phone: +65 68280852
Email: zlyang@smu.edu.sg

Jing Li (co-advisor)
School of Economics
Singapore Management University
90 Stamford Road
Singapore 178903
Phone: +65 68085454
Email: lijing@smu.edu.sg

Jungho Lee
School of Economics
Singapore Management University
90 Stamford Road
Singapore 178903
Phone: +65 68280086
Email: jungholee@smu.edu.sg

Teaching and Research Fields:

Primary fields: Urban Economics; Real Estate Economics and Finance
Secondary fields: Spatial Econometrics

Teaching Experience:

Teaching Assistant:
2018-2021   Real Estate Economics and Finance, Singapore Management University
2017-2018   Introductory Statistics, Singapore Management University

Professional Activities:

Referee Service: Economic Modelling

Conference and Seminar Presentations:

Conference Presentations:
Jan. 2022   AREUEA-ASSA Annual Conference, online (scheduled)
Jul. 2021   AsRES/AREUEA/GCREC International Real Estate Conference, online
Jul. 2021   China Meeting of Econometric Society 2021, online
Jun. 2021   Asian Meeting of Econometric Society 2021, online
May. 2021   The XV World Conference of Spatial Econometrics Association, online
Apr. 2021   10th European Meeting of the Urban Economics Association, online
Jan. 2021   AREUEA-ASSA Annual Conference, Ph.D. poster session, online

Honors, Scholarships, and Fellowships:

2021-2022   Presidential Doctoral Fellowship, Singapore Management University
2017-2021   Ph.D. Scholarship, Singapore Management University
2016   Monash Business School Student Excellence Award, Monash University
2014-2017   Siyuan Scholarship, Xi'an Jiaotong University

Research Papers:

"Analysis of Large Real Estate Prices Data: A High-Order Spatiotemporal Autoregression Approach", with Zhenlin Yang (Job Market Paper)

Abstract: Real estate prices arrive sequentially on different housing units over time in a large volume. In this paper, we propose a high-order spatiotemporal autoregressive model with unobserved cluster and time heterogeneity. When the numbers of clusters (C) and time segments (T) are finite and the errors are iid, quasi maximum likelihood method is used for model estimation and inference. In the presence of unknown heteroskedasticity, or C and/or T is large, an adjusted quasi score method is proposed for model estimation and inference. Methods for constructing the space-time connectivity matrices are proposed. Monte Carlo experiments are performed for assessing the finite sample properties of the proposed methods. An empirical application is presented using the housing transaction data in Beijing. We find that the estimation of the spatiotemporal interaction effects are largely affected after controlling for cluster heterogeneity at the community level.

"Identifying Knowledge Spillovers from Universities: Quasi-experimental Evidence from Urban China", with Jing Li and Shimeng Liu (R&R at *Journal of Urban Economics*)

Abstract: This paper studies the impact of universities on local innovation activity by exploiting a unique university expansion policy in China as a quasi-experiment. We take a geographic approach, empowered by geocoded data on patents and new products at the address level, to identify knowledge spillovers as an important channel. We obtain three main findings. First, university expansion significantly increases universities' own innovation capacity, which results in a dramatic boom of local patents not related to universities. Second, the impact of university expansion on local innovation activities attenuates sharply within 2 kilometers of the universities. Third, university expansion boosts nearby firms' new products and the number of nearby industrial patents that cite university patents but not those industrial patents that cite patents far away from universities.

Work in Progress:

    "Urbanization and Feminization", with Yumi Koh, Jing Li, and Junjian Yi

    "A High-Order Spatiotemporal Autoregression Model with Interactive Fixed Effects", with

Zhenlin Yang

Computer Skills:
Stata, Matlab, LaTeX

Languages:
Mandarin Chinese (native), English (fluent)